

Washington CAD – CARS Project

Project Update

Topics

- ▶ Where we started / Project Objectives
- ▶ Current Status
- ▶ Remaining Activities

Where we started

- ▶ State Patrol
 - CAD for entry of Accidents / Incidents
- ▶ WSDOT
 - CARS for entry of events
 - Source of traveler information (511, web)
- ▶ Sharing
 - Manual process
 - As time allows

Project Objectives

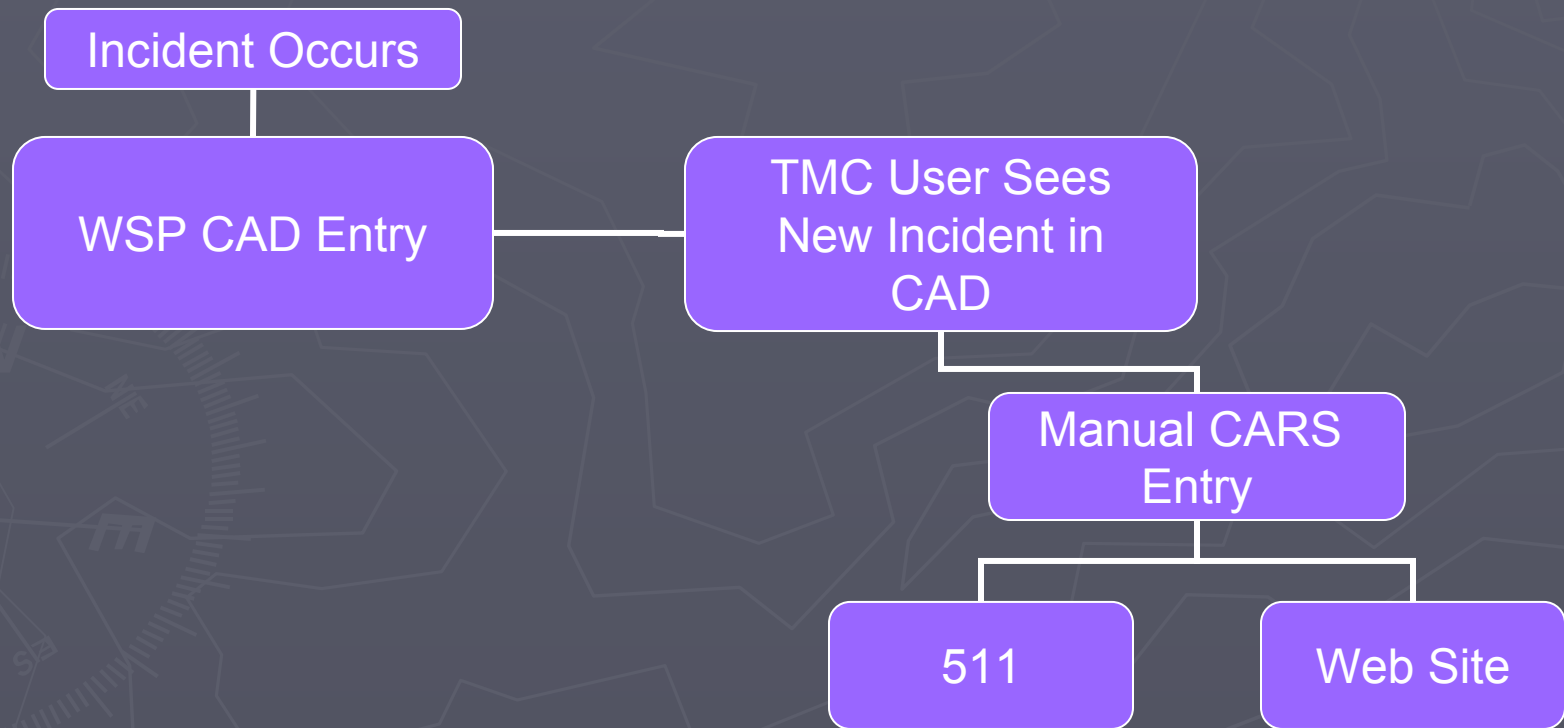
- Open communications between CAD and CARS
- Improve emergency response
- Improve traveler information
- No additional data entry burdens

Project Goals

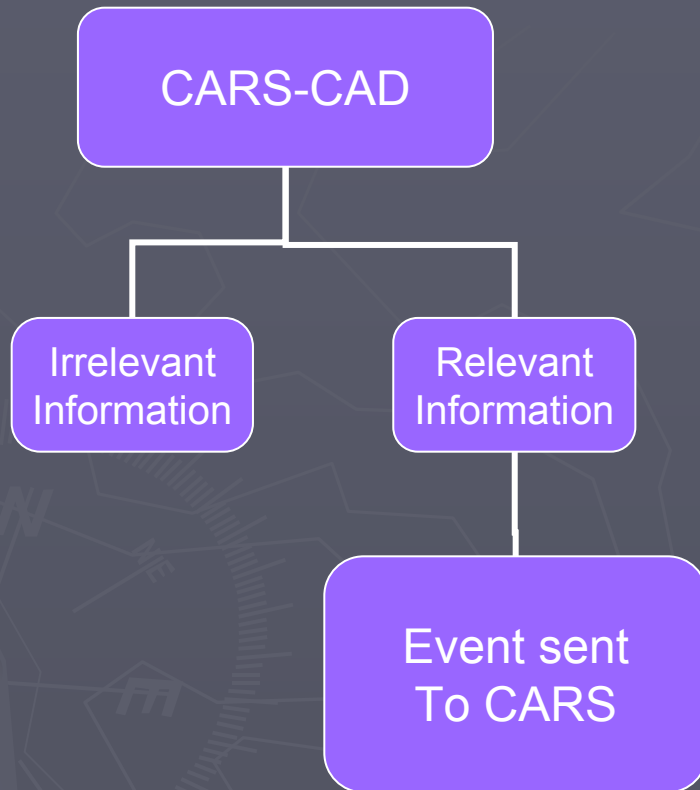
- ▶ **Link** the WSP CAD and WSDOT CARS systems
 - Better traveler information for the public
 - Increased efficiency
 - Little to no impact on current operational practices
- ▶ Demonstrate the use of ITS standards
- ▶ Expand to include other responders

Current Practices

- Currently, for incidents reported to WSP...

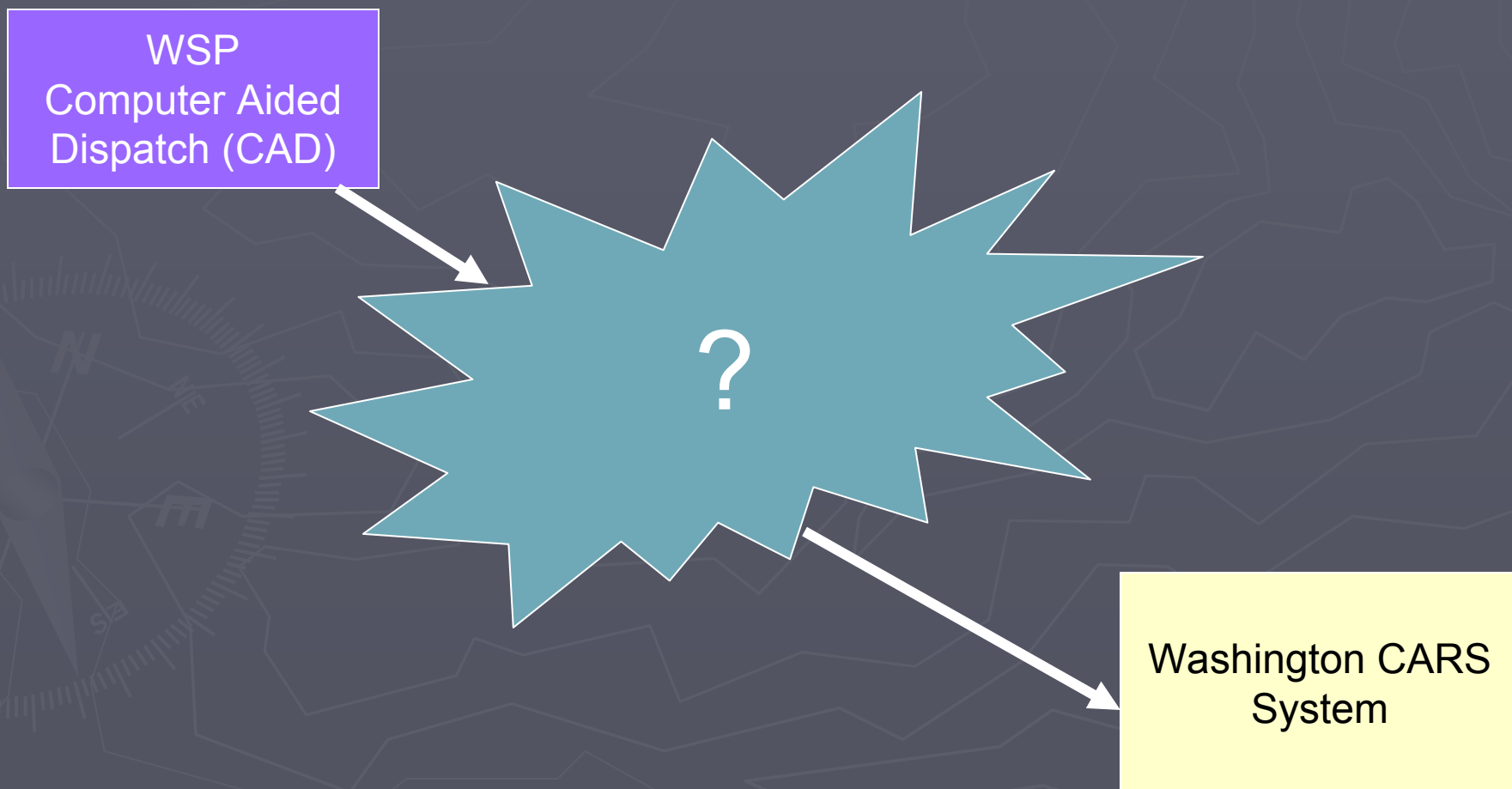


Automated CAD-CARS Link



- Filters accident details that don't affect traffic
- Prepares a *suggested CARS event*

Current Status



WSP
Computer Aided
Dispatch (CAD)

Current Status

CAD Data
FTP Push

CARS-CAD
FTP Pull
1512 Translation

CARS-CAD
1512 Msg.
Push to CARS

Washington
CARS
(Test System)

How Exactly Does It Work ?

WSP
Computer Aided
Dispatch (CAD)

A white arrow points from the bottom of the 'WSP Computer Aided Dispatch (CAD)' box to the top of the 'CAD Data FTP Push' box.

CAD Data
FTP Push

6/4/2004 2:48:19 AM

YAK

COLPI

INJURY COLLISION

E410 MP960

RED SUZUKI SWIFT

Actual Output of an Event

- Sent to WSP FTP Site

How Exactly Does It Work ?

WSP
Computer Aided
Dispatch (CAD)

A white arrow points from the bottom of the 'WSP Computer Aided Dispatch (CAD)' box to the top of the 'CAD Data FTP Push' box.

CAD Data
FTP Push

6/4/2004 2:48:19 AM

YAK

COLPI

INJURY COLLISION

E410 MP960

RED SUZUKI SWIFT

Date / Time stamp

County / Area (Yakima)

Description code

Text Description of code

Eastbound SR 410 at MP 96.0

Vehicle Description

Region: All

Situation List !

1. disabled vehicle
US 2 at Odabashian Bridge
8:27 AM, 01/24/05
2. object on roadway
SR 303 at NELS NELSON NW RD
9:13 AM, 01/24/05
3. accident
I-405 at Railroad XING - NUM 91760P
1:53 PM, 01/24/05
4. accident
SR 7 at 138th Street S
2:19 PM, 01/24/05
5. disabled vehicle
I-90 at Exit 70 Lake Easton State Park
2:33 PM, 01/24/05
6. disabled vehicle
I-82 at Exit 11
3:01 PM, 01/24/05
7. object on roadway
I-5 at Exit 199
3:03 PM, 01/24/05
8. accident
SR 507 at KOEPPEN RD
3:05 PM, 01/24/05
9. people on roadway
SR 538 at I-5
3:12 PM, 01/24/05
10. accident
I-5 at Exit 177

Refresh

Start Time

Situation #: 10

CARS:

accident
on I-5 at Exit 177
since 3:20 PM, 01/24/05 for the next 45 min

CAD:

01/24/05 3:20:35 PM 2Z1 COLPD
NON INJURY COLLISION
-122.31742 47.777481

Location: N5 205TH
Remarks: 3C JS LL RS

Accept

Hold

Take Over Event

Region: All

Situation List !

1. disabled vehicle
US 2 at Odabashian Bridge
8:27 AM, 01/24/05
2. object on roadway
SR 303 at NELSON NW RD
9:13 AM, 01/24/05
3. accident
I-405
1:53 PM, 01/24/05
4. accident
SR 7 at 138th Street S
2:19 PM, 01/24/05
5. disabled vehicle
I-90 at Exit 70 Lake Easton State Park
2:33 PM, 01/24/05
6. disabled vehicle
I-82 at Exit 11
3:01 PM, 01/24/05
7. object on roadway
I-5 at Exit 199
3:03 PM, 01/24/05
8. accident
SR 507 at KOEPPEN RD
3:05 PM, 01/24/05
9. people on roadway
SR 538 at I-5
3:12 PM, 01/24/05
10. accident
I-5 at Exit 177

How do we handle
Locations?

Situation #: 10

accident
on I-5 at Exit 177
since 3:20 PM, 01/24/05 for the next 45 min

CAD:

01/24/05 3:20:35 PM 2Z1 COLPD
NON INJURY COLLISION
-122.31742 47.777481

CAD:

Location: N5 205TH
Remarks: 3C JS LL RS

Accept

Hold

Take Over Event

Location Processing

State Patrol
CAD

Manually type
Location description

State Patrol
CAD

Converts manual
Entries into State
Plane Coordinates

WSDOT
Server

Conversion from
State Plane to
Lat / Lon

CARS-CAD

Snap Lat / Lon
To Nearest CARS
Location description
Uses Route name for
verification

In CARS...

WA CAD TEST

Situation Map View Settings Back Help

Legend

- Accident
- Road Closure
- Congestion
- Construction
- Danger
- Delay
- Hazard
- Event
- Ferry
- Info
- Lane Closed
- Weather Report
- Weather Warning
- Parking
- Visibility
- Warning
- Wind
- Range of Incident

Incoming Messages

Region: Statewide

Require Approval: 20
On Hold: 0

View

Lat=47.6223; Lon=-122.1144; Scale=2184

Pan/Zoom Controls

Area Controls

Mouse Action

Left is Zoom
Right is Create Situation

start 22 9 4 11 2 M.. W. M.. 4:03 PM

In CARS...

WA CAD TEST

Situation Map View Settings Back Help

Legend

- Accident
- Road Closure
- Congestion
- Construction
- Danger
- Delay
- Hazard
- Event
- Ferry
- Info
- Lane Closed
- Weather Report
- Weather Warning
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- Wind
- Range of Incident

Incoming Messages

Region: Statewide

Require Approval: 20

On Hold: 0

View

Situation element

cad-1717.2 Author: WA-CAD accident on I-5 at Exit 177 since 3:20 PM, 01/24/05 for the next 45 mins Internal Comment: Incident type: NON INJURY COLLISION County/Region: 221 Location: N5 205TH Remarks: 3C JS LL RS Priority level: high Access level: public domain

OK

Warning: Applet Window

Lat=47.6223; Lon=-122.1144; Scale=2184

Pan/Zoom Controls

Area Controls

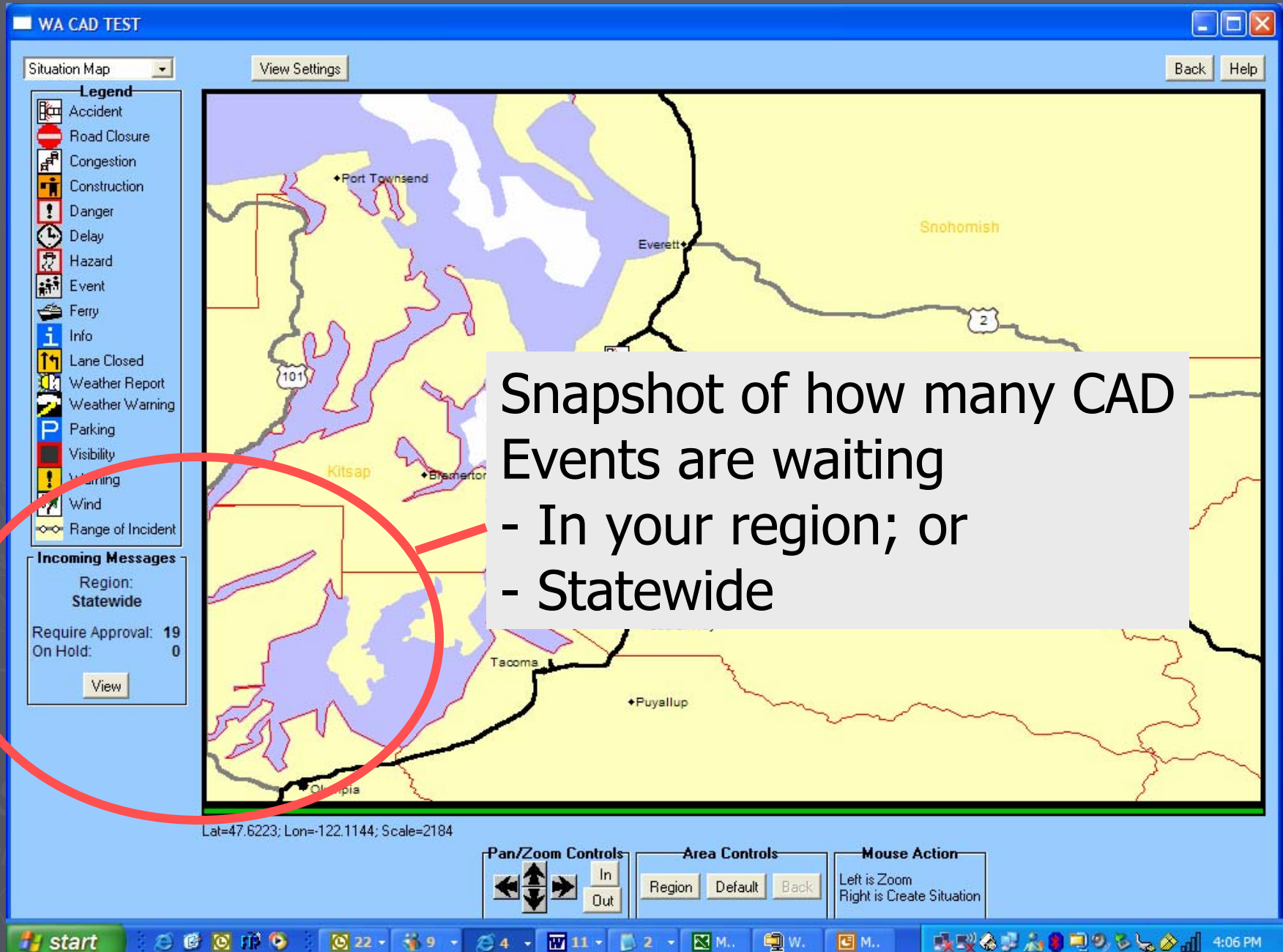
Region Default Back

Mouse Action

Left is Zoom Right is Create Situation

start 22 9 4 11 2 M. W. M. 4:03 PM

Some Features....



WA CAD TEST

Situation Map

View Setting

Back

Help

Legend

Accident

Road Closure

Congestion

Construction

Danger

Delay

Hazard

Event

Ferry

Info

Lane Closed

Weather Report

Weather Warning

Parking

Visibility

Warning

Wind

Range of Incident


Incoming Messages

Region:
Statewide

Require Approval: 23
On Hold: 0

View

Alert that an incoming
CAD event is waiting
- Clicking takes you to
CAD ingest page



Port Townsend

Kitsap

Bremerton

Mercur Island

Federal Way

Tacoma

Puyallup

Olympia

101

5

90

Lat=47.6223; Lon=-122.1144; Scale=2184

Pan/Zoom Controls

Area Controls

Mouse Action

start

22

9

4

11

2

M.

W.

M.

4:11 PM

Remaining Activities

- ▶ Second round of User Feedback
- ▶ Transition to Live System
- ▶ Second Round of Design / Development (to address some suggestions from users)
- ▶ Expand involvement to include Skagit EMS

Ties with Other States

- ▶ New York
- ▶ Florida
- ▶ Minnesota
- ▶ ENTERPRISE states

New York

New York Thruway
CAD System

Converts the events to P1512

I3B
(message
broker)

Sends to CARS System
(using 1512)

1512 Msg.
Push to CARS

New York
CARS System

New York

New York Thruway
CAD System

Converts the events to P1512

Economies of Scale

Sends to CARS System
(using 1512)

1512 Msg.
Push to CARS

New York
CARS System

Florida

Florida State Patrol
CAD System

- SmartCop system
- Will perform 1512 conversion

1512 Msg.
Push to CARS

Florida
CRS System